

TEAC

SERVICE MANUAL

MC-D95

CD/TUNER/AMPLIFIER

NOTES

- PC boards shown are viewed from parts side.
- The parts with no reference number or parts number in the exploded views are not supplied.
- As regards the resistors and capacitors, refer to the circuit diagrams contained in this manual.
- ⚠ Parts marked with this sign are critical components. They must be replaced with identical components - refer to the appropriate parts list and ensure exact replacement.
- Parts of [] mark can be used only with the version designated.
[J] : JAPAN [US] : U.S.A. [C] : CANADA
[E] : EUROPE [UK] : U.K. [GE] : GENERAL EXPORT

CONTENTS

SPECIFICATIONS.....	2
IC PIN FUNCTION	3
MEASUREMENTS AND ADJUSTMENTS.....	7
WIRING DIAGRAM.....	17
BLOCK DIAGRAM	19
SCHEMATIC DIAGRAM.....	20
PRINTED CIRCUIT BOARDS	27
MECHANISM ASS'Y	31
EXPLODED VIEW.....	35
ELECTRICAL PARTS LIST	38

Specifications

AMP Section

Output Power	: 20 W/ch (0.5%, 6 ohms, 1 kHz)
Input Sensitivity	: 200 mV
Frequency Response	: 20 Hz to 40,000 Hz

General

Power Consumption	: 60 W
Power Requirements	: 120 V, 60 Hz [US] 230 V, 50 Hz [EUR]
Dimensions (W x H x D)	: 175 x 140 x 360 mm
Weight (net)	: 4.0 kg

Standard Accessories

Remote Control Unit
Operator's Manual
AM Loop Antenna
FM Lead-type Antenna

- Design and specifications are subject to change without notice.
- The illustrations may differ slightly from production models.

FM Section

Frequency Response	: 87.50 MHz to 108.00 MHz (100 kHz steps) [US] (50 kHz steps) [EUR]
Signal-to-Noise Ratio	: Mono: 65 dB (Mono) Stereo: 56 dB (Stereo)

AM Section

Frequency Response	: 530 kHz to 1720 kHz [US] (10 kHz steps) 522 kHz to 1620 kHz [EUR] (9 kHz steps)
Signal-to-Noise Ratio	: 35 dB

CD PLAYER Section

Signal-to-Noise Ratio	: 80 dB (with IHF "A" Filter)
T.H.D	: 0.05% (1 kHz, 20 kHz LPF)
Channel Separation	: 55 dB (1 kHz)
Channel Balance	: 1 dB
Frequency Response	: 17 Hz - 20 kHz (±1.5 dB)
Wow Flutter	: Bellow Measurable

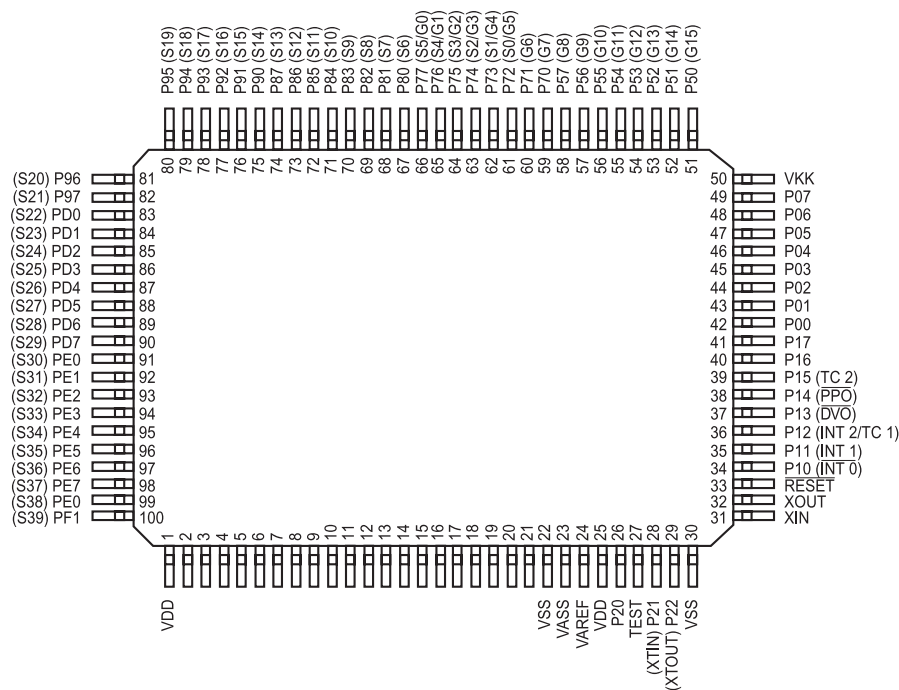
IC36 PIN FUNCTION (IC : BVITMP87PM78F)(AMP)

PIN No.	NAME	I/O	DESCRIPTION
1, 25	VDD	-	POWER SUPPLY (+5V)
6	HREQ	I/O	BUS for CD CLOCK
7	SLQCLK	I/O	BUS for CD CHIP ENABLE
8	SLQIN	I	RESET for CD
9	SLQOUT	O	MUTE for CD SINGLE
12	DATA	O	EUROPE VERSION RDS DATA CONTROL PORT
13	CLOCK	O	
14	STEREO IN	I	STEREO IN CONTROL INPUT
15	TUNED	I	TUNED CONTROL INPUT
16	HPIN		
17	PROTECTOR	I	PROTECTOR IN PORT
19, 20, 21	KEY MATRIX	I	KEY MATRIX PORTS
22,23,27,30	VSS	-	GND
24	VAREF	-	A/D CONVERTOR REFERENCE VOLTAGE
26	BACK UP	I	BACK-UP MODE CONTROL INPUT
28, 29	X-TAL	I	32.768kHz SUB CLOCK CONNECTING PORT
31	X IN	I	8MHz CRYSTAL CONNECTING TERMINAL
32	X OUT	O	
33	RESET	I	SYSTEM RESET PULSE INPUT
34	REMOTE IN	I	REMOTE CONTROL SIGNAL INPUT
35	BUS IN	I	REMOTE CONTROL SIGNAL INPUT
36	BUS OUT	O	REMOTE CONTROL SIGNAL INPUT
38	SPEAKER	O	SPEAKER ON/OFF PORT
41	CE	O	PLL DATA CONTROL PORT
42	DATA OUT	O	
43	CLOCK	O	
44	DATA IN	I	
45	CLOCK	O	TDA7318D DATA CONTROL PORT
46	DATA	O	
47	POWER	O	POWER ON/OFF
48	MUTE	O	SIGNAL MUTE
50	VFL		(-33V) NEGATIVE POWER SUPPLY FOR FIP BLINKING
52 ~ 60	GRID	O	FIP GRID CONTROL OUTPUTS
61 ~ 82	SEGMENT	O	FIP SEGMENT CONTROL OUTPUTS
83 ~ 87		I	AREA OPTION
89	CD POWER	O	CD POWER ON/OFF PORT
90	ON/STBY LED	O	ON/STANDBY LED CONTROL PORT
91	TAPE 'H'	O	ON TAPE FUNCTION 'H' OUTPUT PORT
93	MD 'H'	O	ON MD FUNCTION 'H' OUTPUT PORT
96, 97	JOG CONTROL	I	VOL/BAL/BASS/TRE CONTROL JOG INPUT PORT

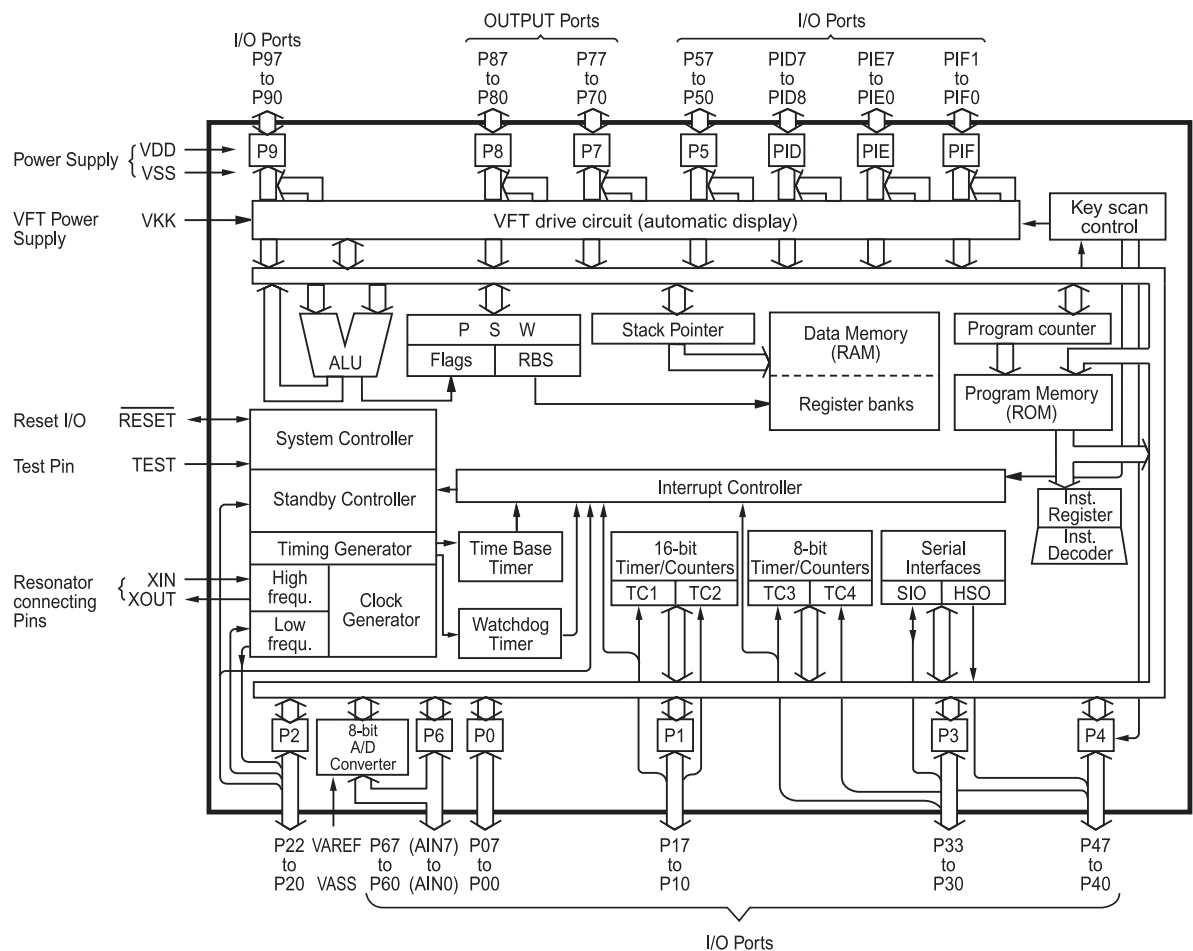
IC 66 PIN FUNCTION (IC : BVITMP87PM78F)(CD)

PIN No.	NAME	I/O	DESCRIPTION
1, 25	VDD	-	POWER SUPPLY (+5V)
2	BUS 0	I/O	BUS for CD DATA
3	BUS 1	I/O	BUS for CD DATA
4	BUS 2	I/O	BUS for CD DATA
5	BUS 3	I/O	BUS for CD DATA
6	BUCK	I/O	BUS for CD CLOCK
7	CCE	I/O	BUS for CD CHIP ENABLE
8	CDRE	O	RESET for CD
9	MUTE	O	MUTE for CD SINGLE
10	SIO CLOCK	I/O	BUS for CD DATA
11	SIO OUT	I/O	
12	SIO IN	I/O	
13	HREQ	I/O	
22,23,27,30	VSS	-	GND
31	X IN	I	8MHz CRYSTAL CONNECTING TERMINAL
32	X OUT	O	
33	RESET	I	SYSTEM RESET
42	A	O	PLL DATA CONTROL PORT
43	B	O	
44	C	O	
45	D	O	
46	DSP POWER	O	CD POWER ON/OFF
83	UN CLAMP SW	I	MECHANISM SW CONDITION
84	T.U HEIGHT SW	I	
85	HOLDER MODE SW	I	
86	T.U HEIGHT SW	I	
87	HOLDER HEIGHT SW	I	
88	LOAD/CLAMP	I	
89	OPEN SW	I	
90	CLOSE/HP SW	I	
91	DISC ON SW	I	
92	DISC CENTER SW	I	

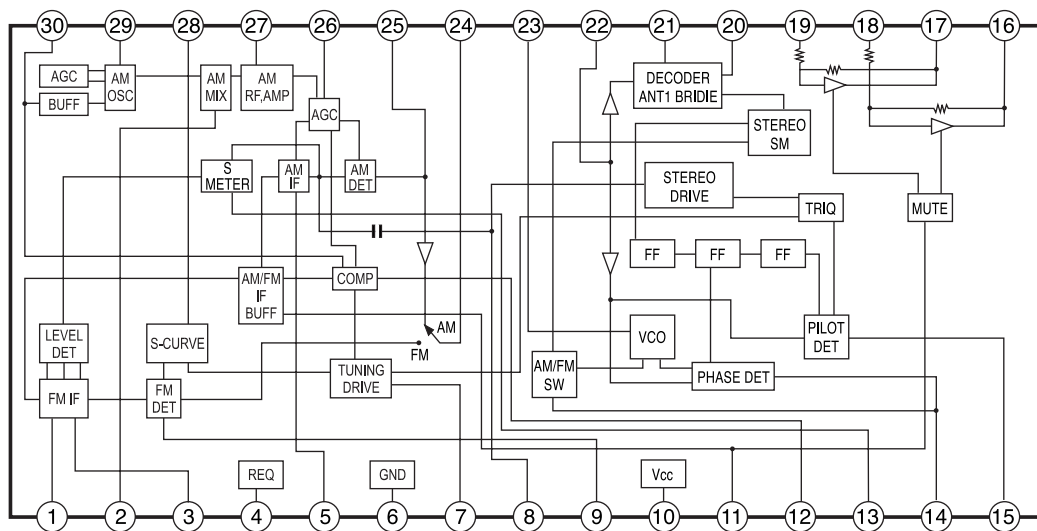
PIN ASSIGNMENTS (TOP VIEW)



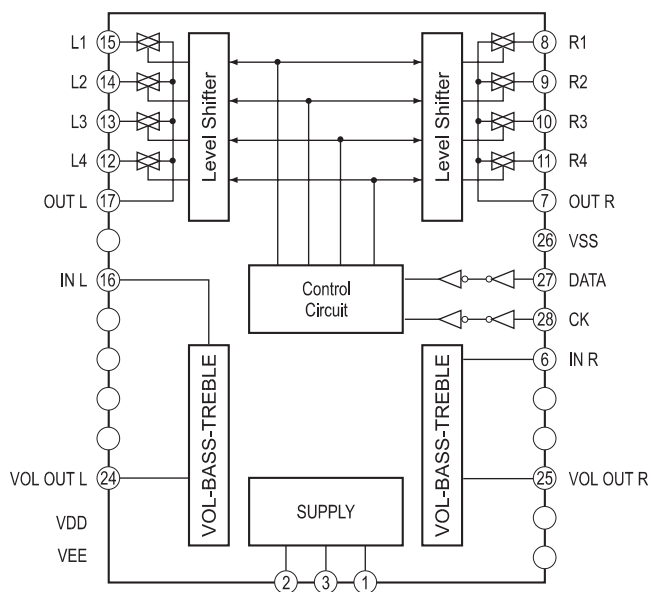
PIN BLOCK DIAGRAM



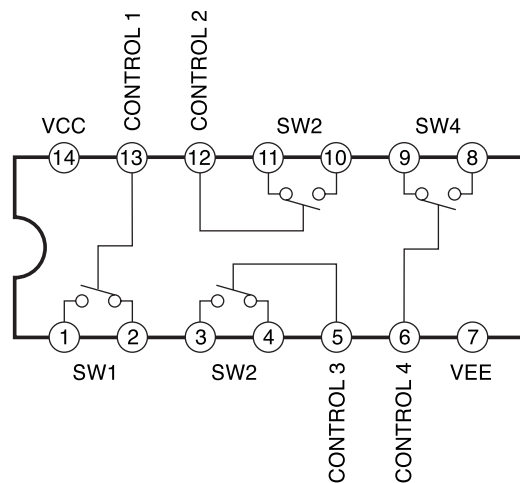
IC11 (TUNER) LA1836M BLOCK DIAGRAM



TDA7318D



IC23(INPUT) LC4966



■ ALIGNMENT INSTRUCTIONS

EQUIPMENT NEEDED:

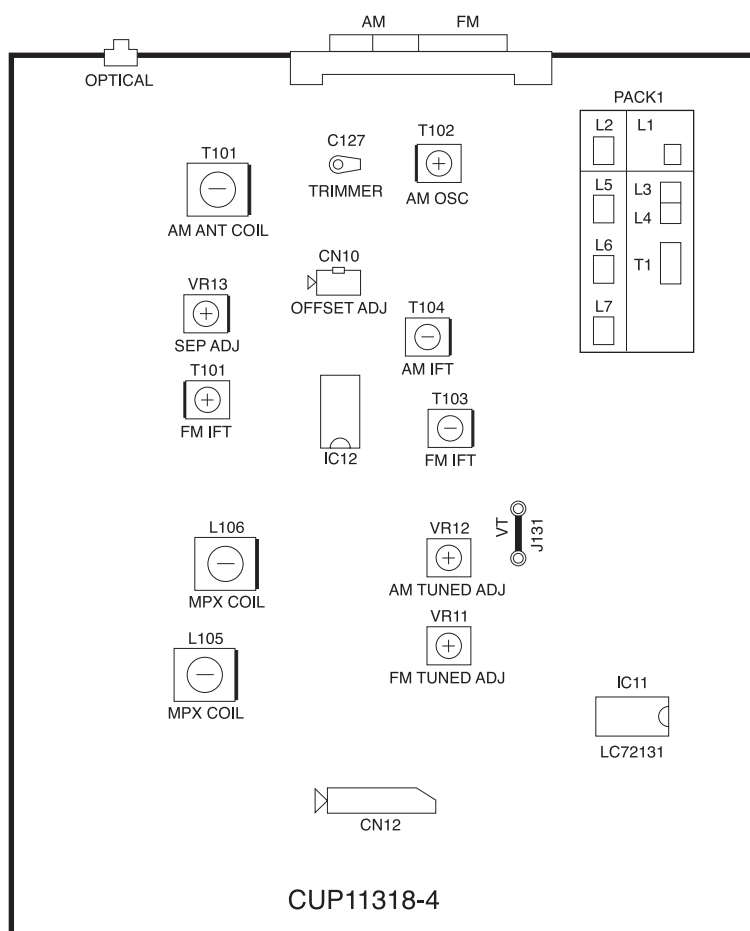
AM Signal Generator
 FM Signal Generator
 Oscilloscope
 VTVM(AC, DC)
 Test loop antenna (AW Adjustment)
 Dummy antenna (FM Adjustment)
 Stereo signal modulator
 Frequency counter
 Distortion analyser

IMPORTANT

1. Check power-source voltage.
2. Set the function switch to band aligned.
3. Keep the signal input as low as possible to adjust accurately.
4. Modulation and modulation frequency.

Band \ Item	Modulation	Modulation frequency
AM	30%	400Hz
FM	100%(75KHz Dev.)	400Hz

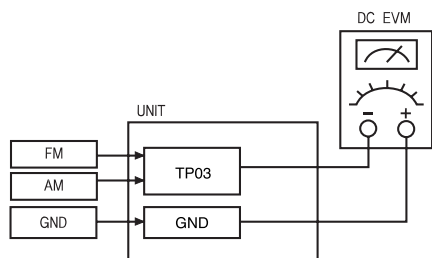
■ ADJUSTMENT POINT



MEASUREMENTS AND ADJUSTMENTS

1. FM, AM TRACKING VOLTAGE ADJUSTMENTS

(FM, AM) DC VOLTMETER CONNECT TO TEST POINT TP1 and GND

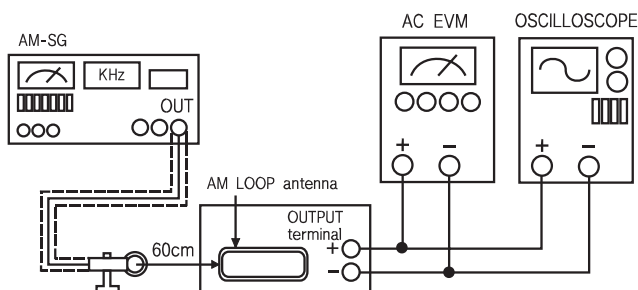


NO.	Band	Frequency	Adjust for	Adjustment
1	FM	87.50MHz	1.5V	L7
2	AM	530KHz	1V	T404

2. AM RF ADJUSTMENT

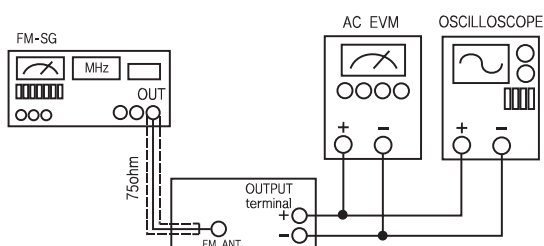
Signal Generator Connects to the AM ANT. Coil through the loop antenna.
Adjust for the indication of VTVM of the wave form of scope to be maximum.

BAND	Step	Frequency	Adjust for	Adjustment
AM	1	610KHz	Maximum sensitivity	T104, L105
	2	1510KHz	Maximum sensitivity	C107
	3	Repeat steps 1 and 2 several times.		



3. FM-RF ADJUSTMENT

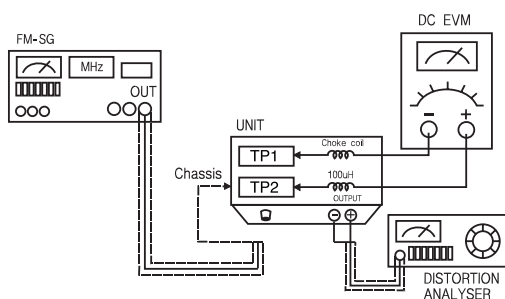
Signal Generator Connect to FM ANT JACK (FM IN) through the dummy.



NO.	Frequency	Adjust for	Adjustment
1	90.10MHz	Maximum Sensitivity	L2, L5, L6
2	Repeat step 1 several times.		

4. FM MONO DISTORTION ADJUSTMENT

DC VOLT METERConnect to TP1(-), TP2(+) Through the choke coll (100 μ H)
 Signal GeneratorConnect to FM ANT Jack (FM IN) through the dummy.
 Distortion MeterConnect to the output.



NO.	Frequency	Adjust for	Adjustment
1	100.10MHz	DC Voltmeter 0V	T103
2	100.10MHz	Minimum T.H.D	T103
3	Repeat steps 1 and 2 Several times.		

5. FM/AM AUTO STOP LEVEL ADJUSTMENT

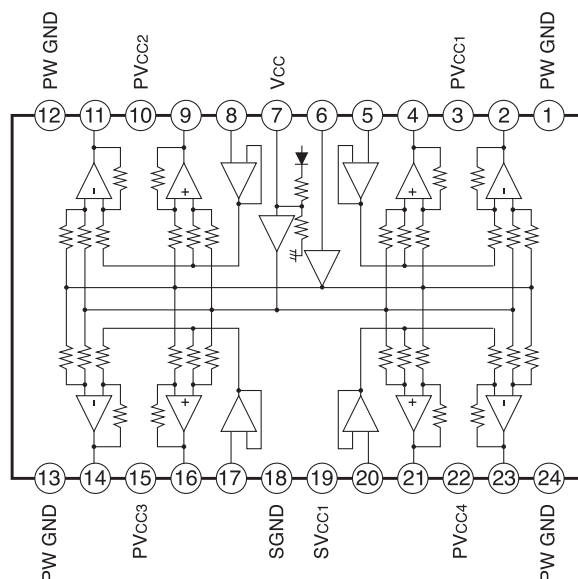
FM SIGNAL GENERATORConnect to FM ANT Jack (FM IN) through the dummy
 AM SIGNAL GENERATOR.....Connect to AM ANT, Coil through the Loop antenna

BAND	STEP	SIGNAL GENERATOR	Adjust for	Adjustment
FM	1	100.1MHz 30dB	<input type="checkbox"/> TUNED Display OFF	VR12
	2	100.1MHz 30dB	<input type="checkbox"/> TUNED Display ON	VR12
AM	1	1000KHz 80dB	<input type="checkbox"/> TUNED Display OFF	VR11
	2	1000KHz 80dB	<input type="checkbox"/> TUNED Display ON	VR11

TA2092N (POWER DRIVER)

PIN No.	NAME	DESCRIPTION
1	PW GND	Power GND Connected to substrate. ①, ⑫, ⑬, ⑭ pin are connected inside.
2	OUT (-) 1	Inverted output for CH1
3	PVCC1	Supply terminal of output stage for CH1 Supply terminal of output stage are not connected to other channel terminal.
4	OUT (+) 1	Non-inverted output for CH1
5	VIN1	Input for CH1. Not biased inside
6	VRI	Input reference voltage Under condition of $V_{RI} \leq 1.8V$, internal bias circuit is shut off. No signal input condition : $V_{RI} = V_{IN}$
7	VCI	Output reference voltage. $V_{OUT} = V_{CI} = (V_{CC} - V_F)/2$
8	VIN2	Input for CH2
9	OUT (+) 2	Non-inverted output for CH2
10	PVCC2	Supply terminal of output stage for CH2
11	OUT (-) 2	Inverted output for CH2
12	PW GND	Power GND
13	PW GND	Power GND
14	OUT (-) 3	Inverted output for CH3
15	PVCC3	Supply terminal of output stage for CH3
16	OUT (+) 3	Non-inverted output for CH3
17	VIN3	Input for CH3
18	S GND	Supply terminal of small signal GND
19	S Vcc	Small signal GND
20	VIN4	Input for CH4
21	OUT (+) 4	Non-inverted output for CH4
22	PVCC4	Supply terminal of output stage for CH4
23	OUT (-) 4	Inverted output for CH4
24	PW GND	Power GND

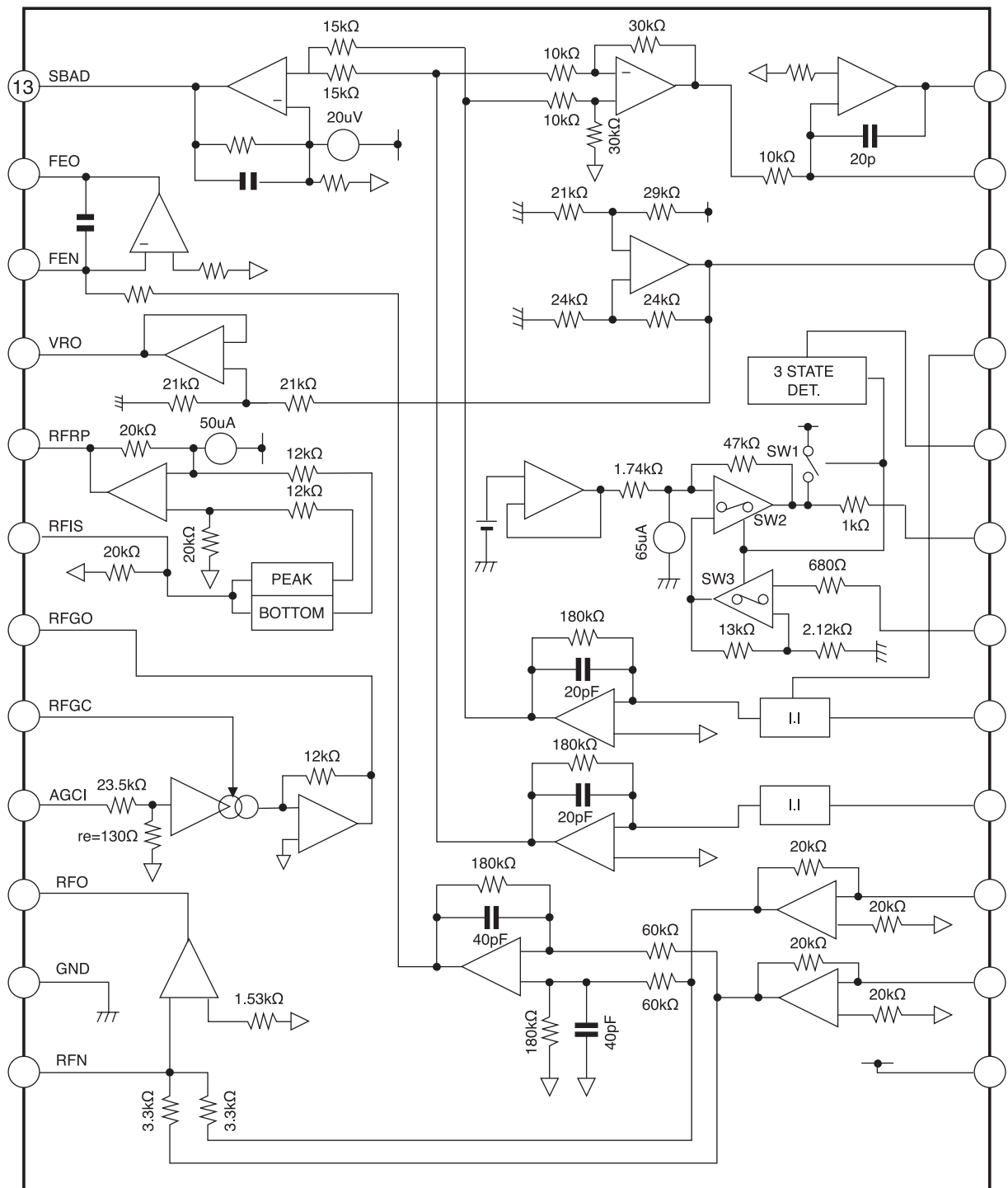
BLOCK DIAGRAM



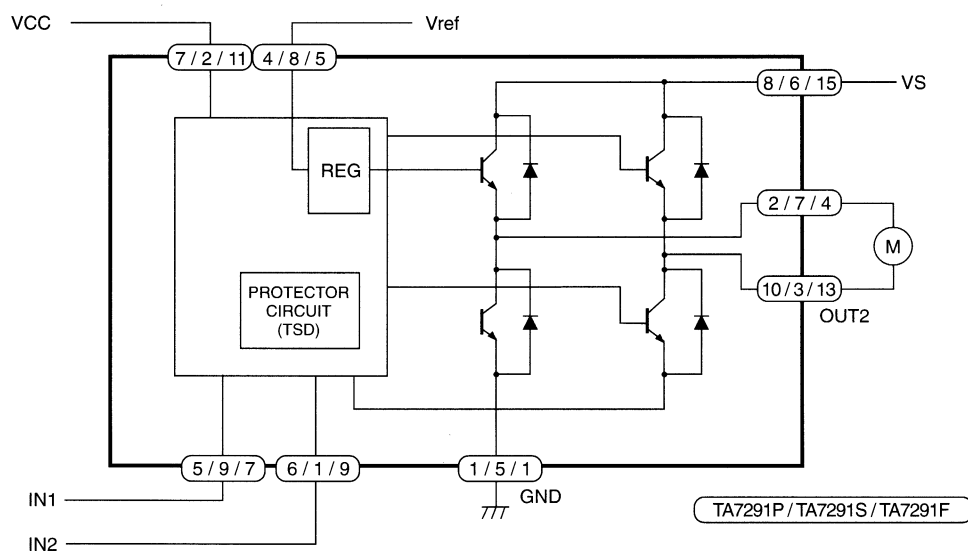
TA2109F (RF/DIGITAL SERVOR)

PIN No.	NAME	I/O	DESCRIPTION	REMARK
1	VCC	-	Power supply input terminal	-
2	FNI	I	Main beam I-V amp input terminal	Connected to pin diode A,C
3	FPI	I	Main beam I-V amp input terminal	Connected to pin diode B,D
4	TPI	I	Sub beam I-V amp input terminal	Connected to pin diode F
5	TNI	I	Sub beam I-V amp input terminal	Connected to pin diode E
6	MDI	I	Monitor photo diode amp input terminal	Connected to monitor photo diode
7	LDO	O	Laser diode amp output terminal	Connected to laser control circuit
8	SEL	I	Laser diode control signal input terminal and APC circuit ON/OFF control signal input terminal	3 signal input (Vcc, Hi-Z, GND)
9	TEB	I	Tracking error balance adjustment signal input terminal. Controlled by 3 PWM signal (PWM carrier = 88.2 kHz)	3 signal input (2 VREF, VR, GND)
10	2VRO	O	Reference voltage (2 VREF) output terminal 2 VREF = 4.2V when VCC = 5V	-
11	TEN	I	TE amp negative input terminal	Connected to TEO through feedback register
12	TEO	O	TE error signal output terminal	-
13	SBAD	O	Sub beam adder signal output terminal	-
14	FEO	O	Focus error signal output terminal	-
15	FEN	I	FE amp negative input terminal	Connected to FEO through feedback register
16	VRO	O	Reference voltage (VREF) output terminal VREF = 2.1V when VCC = 5V	-
17	RFRP	O	Track count signal output terminal	-
18	RFIS	I	RFRP detect circuit input terminal	Connected to RFO through condenser
19	RFGO	O	RF gain signal output terminal	-
20	RFGC	I	RF amplitude adjustment control signal input terminal. Controlled by 3 PWM signal (PWM carrier = 88.2 kHz)	3 signal input (2 VREF, VR, GND)
21	AGCI	I	RF signal amplitude adjustment amp input terminal	Connected to RFO through condenser
22	RFO	O	RF signal output terminal	-
23	GND	-	Ground terminal	-
24	RFN	I	RF amp negative input terminal	-

TA2109F (RF/DIGITAL SERVOR)



TA7291S (Bridge Driver)



PIN No.			SYMBOL	FUNCTIONAL DESCRIPTION
P	S	F		
7	2	11	Vcc	Supply voltage terminal for Logic
8	6	15	Vs	Supply voltage terminal for motor drive
4	8	5	Vref	Supply voltage terminal for control
1	5	1	GND	GND terminal
5	9	7	IN1	Input terminal
6	1	9	IN2	Input terminal
2	7	4	OUT1	Output terminal
10	3	13	OUT2	Output terminal

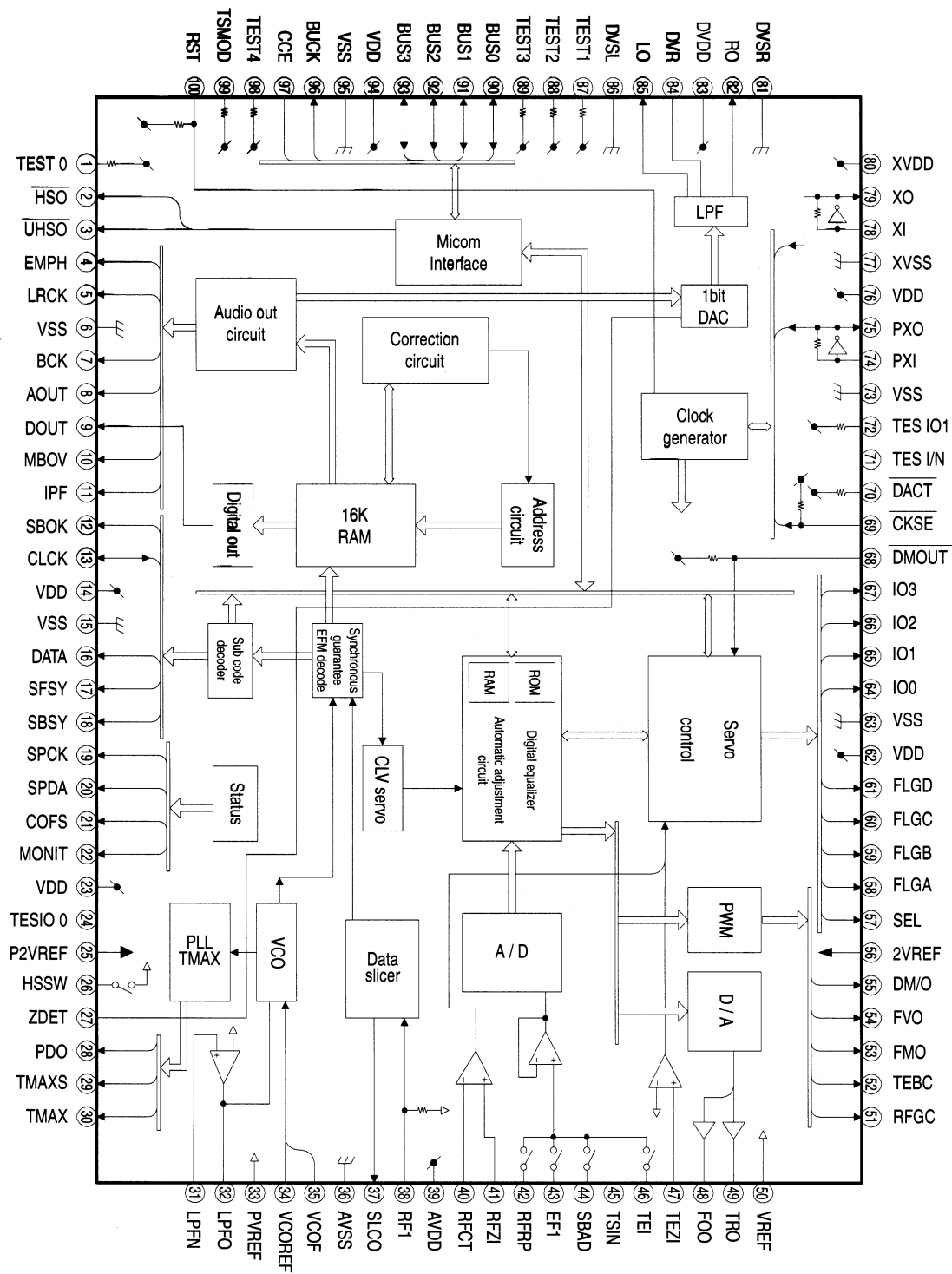
- P Type : PIN ③, ⑨ : NC
- S Type : PIN 4 : NC
- F Type : PIN ②, ③, ⑥, ⑧, ⑩, ⑫, ⑭, and ⑯ : NC
- For F Type, We recommend FIN to be connected to the GND.

TC9432AF (Digital Signal Processor)

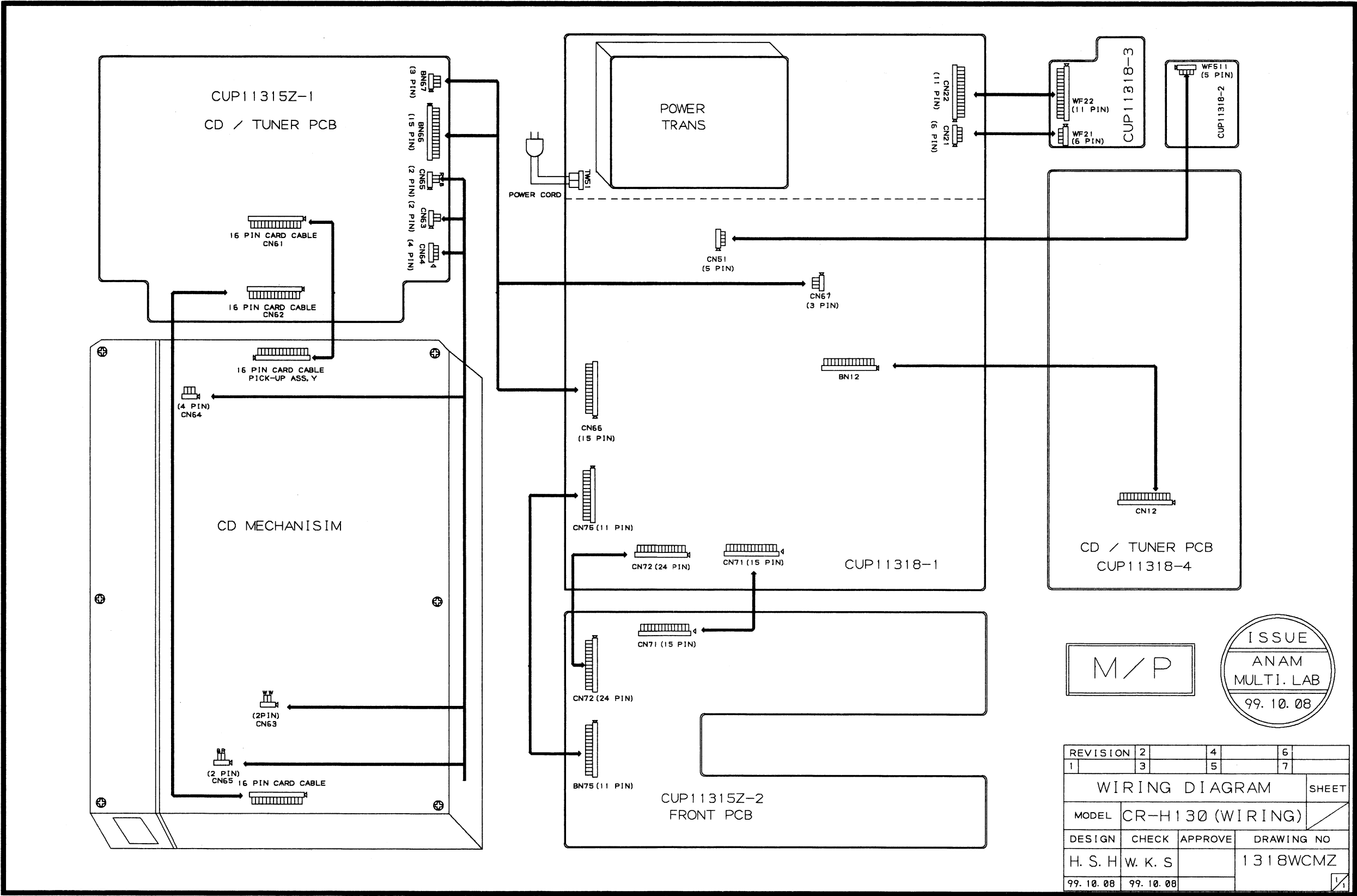
PIN No.	NAME	I/O	FUNCTIONAL DESCRIPTION	REMARKS															
1	TEST0	-	Test mode terminal. Normally, keep at open.	With pull-up resistor.															
2	$\overline{\text{HSO}}$	O	Playback speed mode flag output terminal. <table><tr><td>$\overline{\text{UHSO}}$</td><td>$\overline{\text{HSO}}$</td><td>PLAYBACK SPEED</td></tr><tr><td>H</td><td>H</td><td>Normal</td></tr><tr><td>H</td><td>L</td><td>2 times</td></tr><tr><td>L</td><td>H</td><td>4 times</td></tr><tr><td>L</td><td>L</td><td>-</td></tr></table>	$\overline{\text{UHSO}}$	$\overline{\text{HSO}}$	PLAYBACK SPEED	H	H	Normal	H	L	2 times	L	H	4 times	L	L	-	-
$\overline{\text{UHSO}}$	$\overline{\text{HSO}}$	PLAYBACK SPEED																	
H	H	Normal																	
H	L	2 times																	
L	H	4 times																	
L	L	-																	
3	$\overline{\text{UHSO}}$	O																	
4	EMPH	O	Subcode Q data emphasis flag output terminal. Emphasis ON at “H” level and OFF at “L” level. The output polarity can invert by command.	-															
5	LRCK	O	Channel clock output terminal. (44.1 kHz) L-ch at “L” level and R-ch at “H” level. The output polarity can invert by command.	-															
6	Vss	-	Digital GND terminal.	-															
7	BCK	O	Bit clock output terminal. (1.4112 MHz)	-															
8	AOUT	O	Audio data output terminal.	-															
9	DOUT	O	Digital data output terminal.	-															
10	MBOV	O	Buffer memory over signal output terminal. Over at “H” level.	-															
11	IPF	O	Correction flag output terminal. At “H ” level, AOUT output is made to correction impossibility by C2 correction processing.	-															
12	SBOK	O	Subcode Q data CRCC check adjusting result output terminal. The adjusting result is OK at “H” level.	-															
13	CLCK	I/O	Subcode P~W data readout clock input/output terminal. This terminal can select by command bit.	-															
14	Vdd	-	Digital power supply voltage terminal.	-															
15	Vss	-	Digital GND terminal.	-															
16	DATA	O	Subcode P~W data output terminal.	-															
17	SFSY	O	Playback frame sync signal output terminal.	-															
18	SBSY	O	Subcode block sync signal output terminal.	-															
19	SPCK	O	Processor status signal readout clock output terminal.	-															
20	SPDA	O	Processor status signal output terminal.	-															
21	COFS	O	Correction frame clock output terminal. (7.35 kHz)	-															
22	MONIT	O	Internal signal (DSP internal flag and PLL clock) output terminal. Selected by command.	-															
23	VDD	-	Digital power supply voltage terminal.	-															
24	TESIO0	I	Test input/output terminal. Normally, keep at “L” level.	-															
25	P2VREF	-	PLL double reference voltage supply terminal.	-															
26	HSSW	O	2/4 times speed at “VREF” voltage.	2-state output (PVREF,HiZ)															
27	ZDET	O	1 bit DA converter zero detect flag output terminal.	-															
28	PDO	O	Phase difference signal output terminal of EFM signal and PLCK signal.	3-state output (P2VREF,PVREF,Vss)															
29	TMAXS	O	TMAX detection result output terminal. Selected by command bit (TMPS).	-															
30	TMAX	O	TMAX detection result output terminal. Selected by command bit (TMPS). <table><tr><td>DIFFERENCE RESULT</td><td>TMAX OUTPUT</td></tr><tr><td>Longer than fixed ferq.</td><td>“P2VREF”</td></tr><tr><td>Shorter than fixed freq.</td><td>“Vss”</td></tr><tr><td>Within the fixed freq.</td><td>“HiZ”</td></tr></table>	DIFFERENCE RESULT	TMAX OUTPUT	Longer than fixed ferq.	“P2VREF”	Shorter than fixed freq.	“Vss”	Within the fixed freq.	“HiZ”	3-state output (P2VREF,HiZ,Vss)							
DIFFERENCE RESULT	TMAX OUTPUT																		
Longer than fixed ferq.	“P2VREF”																		
Shorter than fixed freq.	“Vss”																		
Within the fixed freq.	“HiZ”																		

PIN No.	NAME	I/O	FUNCTIONAL DESCRIPTION	REMARKS
31	LPFN	I	LPF amplifier inverting input terminal for PLL.	Analog input.
32	LPFO	O	LPF amplifier output terminal for PLL.	Analog output.
33	PVREF	-	PLL reference voltage supply terminal.	-
34	VCOREF	I	VCO center frequency reference level terminal. Normally, keep at "PVREF" level.	-
35	VCOF	O	VCO filter terminal.	Analog output.
36	AVss	-	Analog GND terminal.	-
37	SLCO	O	Data slice level output terminal.	Analog output.
38	RFI	I	RF signal input terminal.	Analog input (Zin : selected by command)
39	AVDD	-	Analog power supply voltage terminal.	-
40	RFCT	I	RFRP signal center level input terminal.	Analog input (Zin : 50kΩ)
41	RFZI	I	RFRP zero cross input terminal.	Analog input.
42	RFRP	I	RF ripple signal input terminal.	Analog input.
43	FEI	I	Focus error signal input terminal.	Analog input.
44	SBAD	I	Sub-beam adder signal input terminal.	Analog input.
45	TSIN	I	Test input terminal. Normally, keep at "VREF" level.	Analog input.
46	TEI	I	Tracking error signal input terminal. Track in at tracking servo on.	Analog input.
47	TEZI	I	Tracking error zero cross input terminal.	Analog input (Zin : 10kΩ)
48	FOO	O	Focus servo equalizer output terminal.	Analog output (2VREF~AVss)
49	TRO	O	Tracking servo equalizer output terminal.	
50	VREF	-	Analog reference voltage supply terminal.	-
51	RFGC	O	RF amplitude adjustment control signal output terminal.	3-state PWM signal output. (2VREF, VREF, Vss) (PWM carrier = 88.2 kHz)
52	TEBC	O	Tracking balance control signal output terminal.	
53	TEBC	O	Feed equalizer output terminal.	
54	TEBC	O	Speed error signal or feed search equalizer output terminal.	3-state PWM signal output. (2VREF, VREF, VSS)
55	DMO	O	Disk equalizer output terminal. (PWM carrier = 88.2 kHz for DSP, Synchronize to PXO)	
56	2VREF	-	Analog double reference voltage supply terminal.	-
57	SEL	O	APC circuit ON/OFF indication signal output terminal. At the laser on time, UHF = L at "HiZ" level and UHF = H at "H" level.	-
58	FLGA	O	External flag output terminal for internal signal. Can select signal from TEZC, FOON, FOK and RFZC by command.	-
59	FLGB	O	External flag output terminal for internal signal. Can select signal from DECT, FOON, FMON and RFZC by command.	-
60	FLGC	O	External flag output terminal for internal signal. Can select signal from TRON, TRSR, FOK and SRCH by command.	-
61	FLGD	O	External flag output terminal for internal signal. Can select signal from TRON, DMON, HYS and SHC by command.	-
62	VDD	-	Digital power supply voltage terminal.	-
63	Vss	-	Digital GND terminal.	-
64	IO0	I/O	General I/O terminal. Can change over input port or output port by command. At the input mode time can readout a state of terminal (H/L) by read command. At the output mode time can control a state of terminal (H/L/HiZ) by command.	-
65	IO1			
66	IO2			
67	IO3			

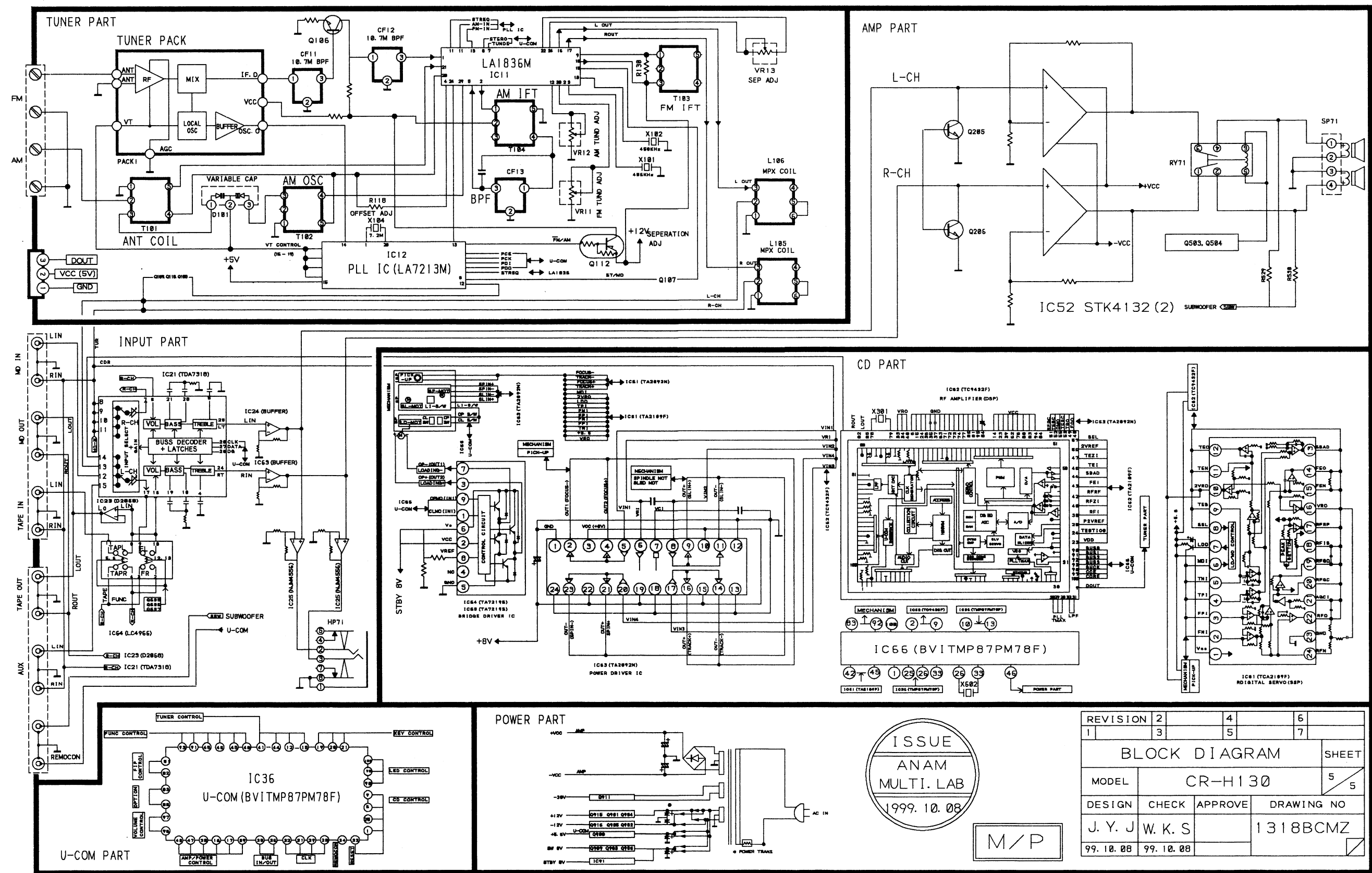
PIN No.	NAME	I/O	FUNCTIONAL DESCRIPTION	REMARKS
68	$\overline{\text{DMOUT}}$	I	This terminal controls IO0~IO3 terminal. At "L" level time, IO0, 1 out feed equalizer signal of 2-state PWM. IO2, 3 out disk equalizer signal of 2-state PWM.	With pull-up resistor.
69	$\overline{\text{CKSE}}$	I	Normally, keep at open.	With pull-up resistor.
70	$\overline{\text{DACT}}$	I	DAC test mode terminal. Normally, keep at open.	With pull-up resistor.
71	$\overline{\text{TESIN}}$	I	Test input terminal. Normally, keep at "L" level.	Analog input.
72	$\overline{\text{TESIO1}}$	I	Test input/output terminal. Normally, keep at "L" level.	Analog input.
73	Vss	-	Digital GND terminal.	-
74	PXI	I	Crystal oscillator connecting input terminal for DSP. Normally, keep at "L" level.	-
75	PXO	O	Crystal oscillator connecting output terminal for DSP.	-
76	VDD	-	Digital power supply voltage terminal.	-
77	XVss	-	Oscillator GND terminal for system clock.	-
78	XI	I	Crystal oscillator connecting input terminal for system clock.	-
79	XO	O	Crystal oscillator connecting output terminal for system clock.	-
80	XVDD	-	Oscillator power supply voltage terminal for system clock.	-
81	DVSR	-	Analog GND terminal for DA converter. (R-ch)	-
82	RO	O	R channel data forward output terminal.	-
83	DVDD	-	Analog supply voltage terminal for DA converter.	-
84	DVR	-	Reference voltage terminal for DA converter.	-
85	LO	O	L channel data forward output terminal.	-
86	DVSL	-	Analog GND terminal for DA converter. (L-ch)	-
87	TEST1	I	Test mode terminal. Normal, keep at open.	With pull-up resistor.
88	TEST2	I	Test mode terminal. Normal, keep at open.	With pull-up resistor.
89	TEST3	I	Test mode terminal. Normal, keep at open.	With pull-up resistor.
90	BUS0	I/O	Micom interface data input/output terminal.	Schmit input. With pull-up resistor.
91	BUS1	I/O		
92	BUS2	I/O		
93	BUS3	I/O		
94	VDD	-	Digital Ppower supply voltage terminal.	-
95	Vss	-	Digital GND terminal.	-
96	BUCK	I	Micom interface clock input terminal.	Schmit input.
97	$\overline{\text{CCE}}$	I	Command and data sending/receiving chip enable signal input terminal. The bus line becomes active at "L" level.	Schmit input.
98	TEST4	I	Test mode terminal. Normal, keep at open.	With pull-up resistor.
99	$\overline{\text{TSMOD}}$	I	Local test mode selection terminal.	With pull-up resistor.
100	$\overline{\text{RST}}$	I	Reset signal input terminal. Reset at "L" level.	With pull-up resistor.



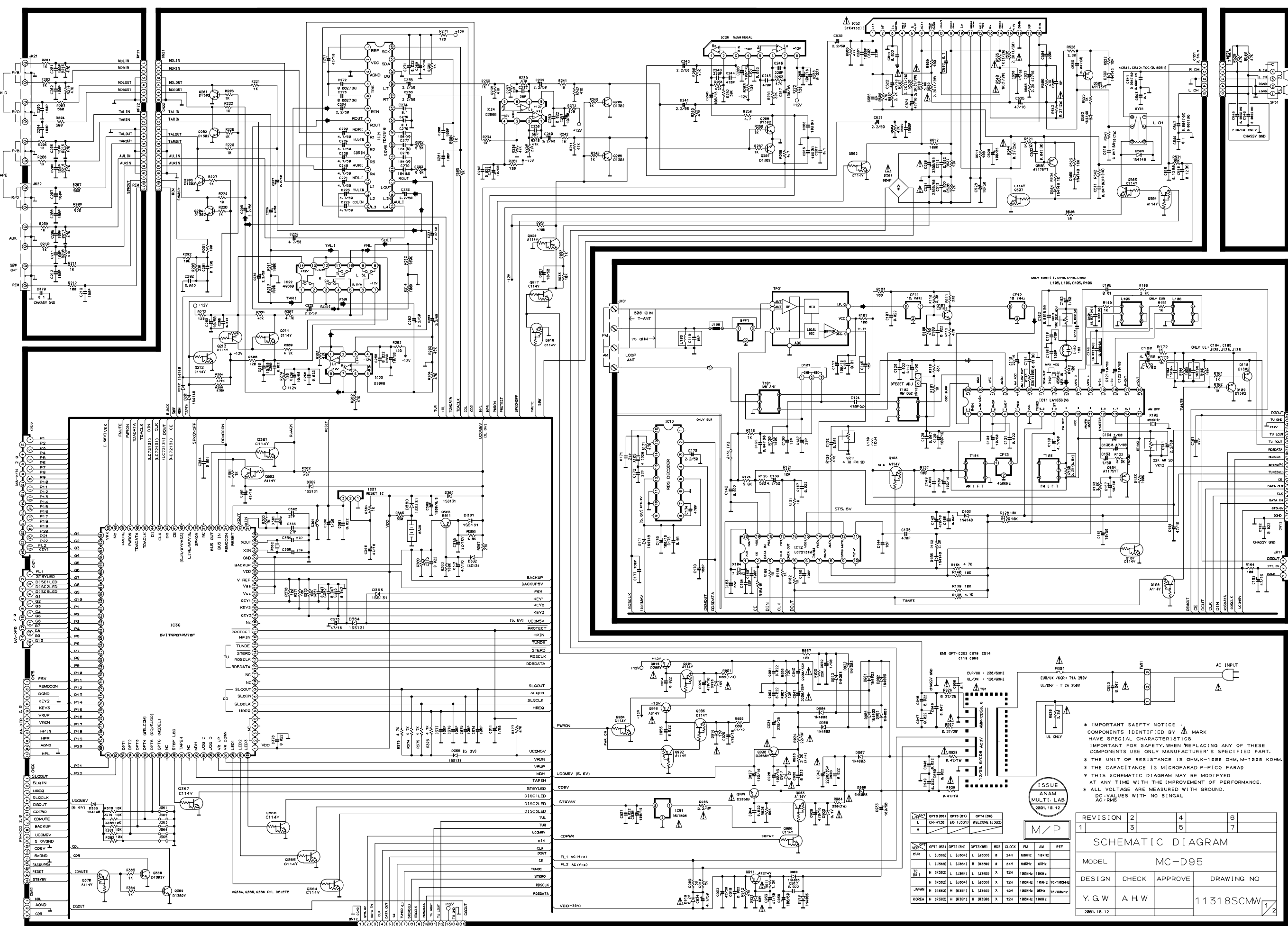
WIRING DIAGRAM



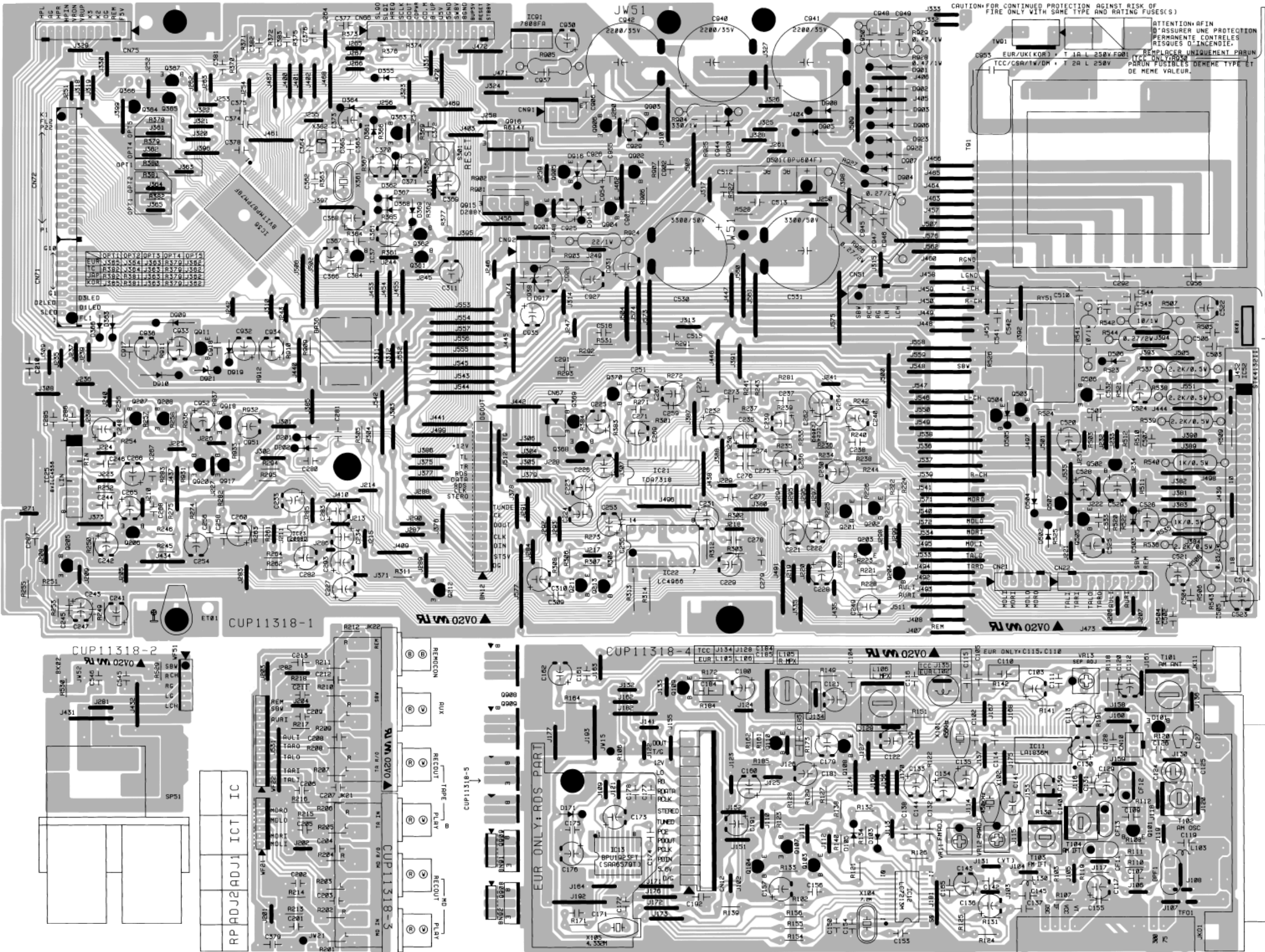
BLOCK DIAGRAM



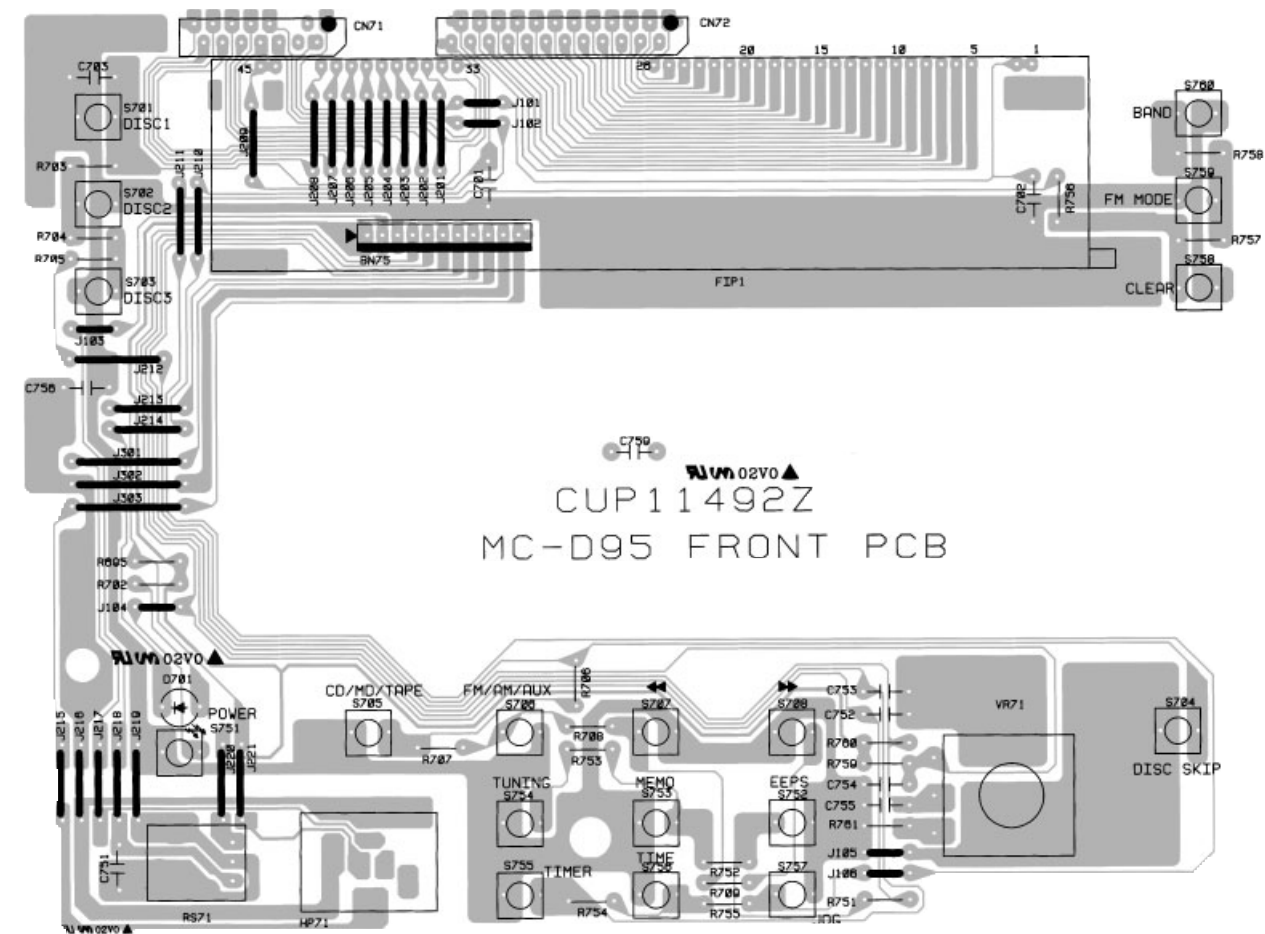
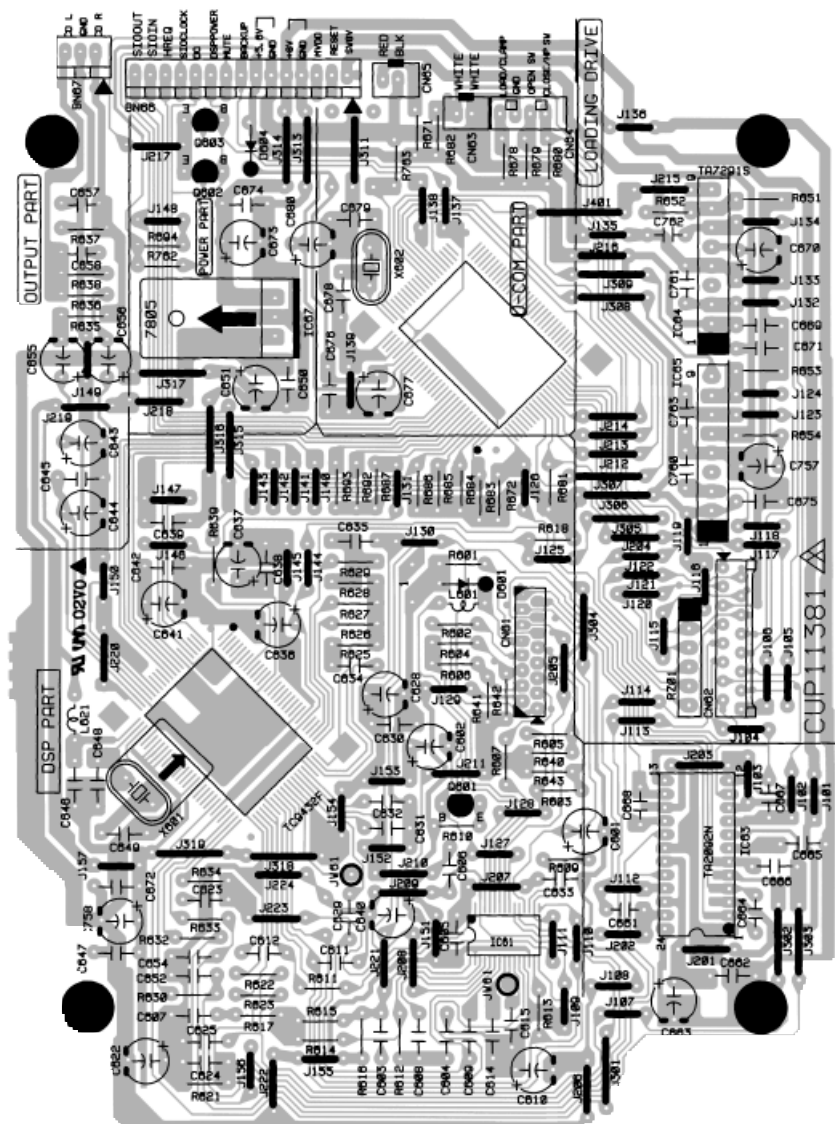
SCHEMATIC DIAGRAM



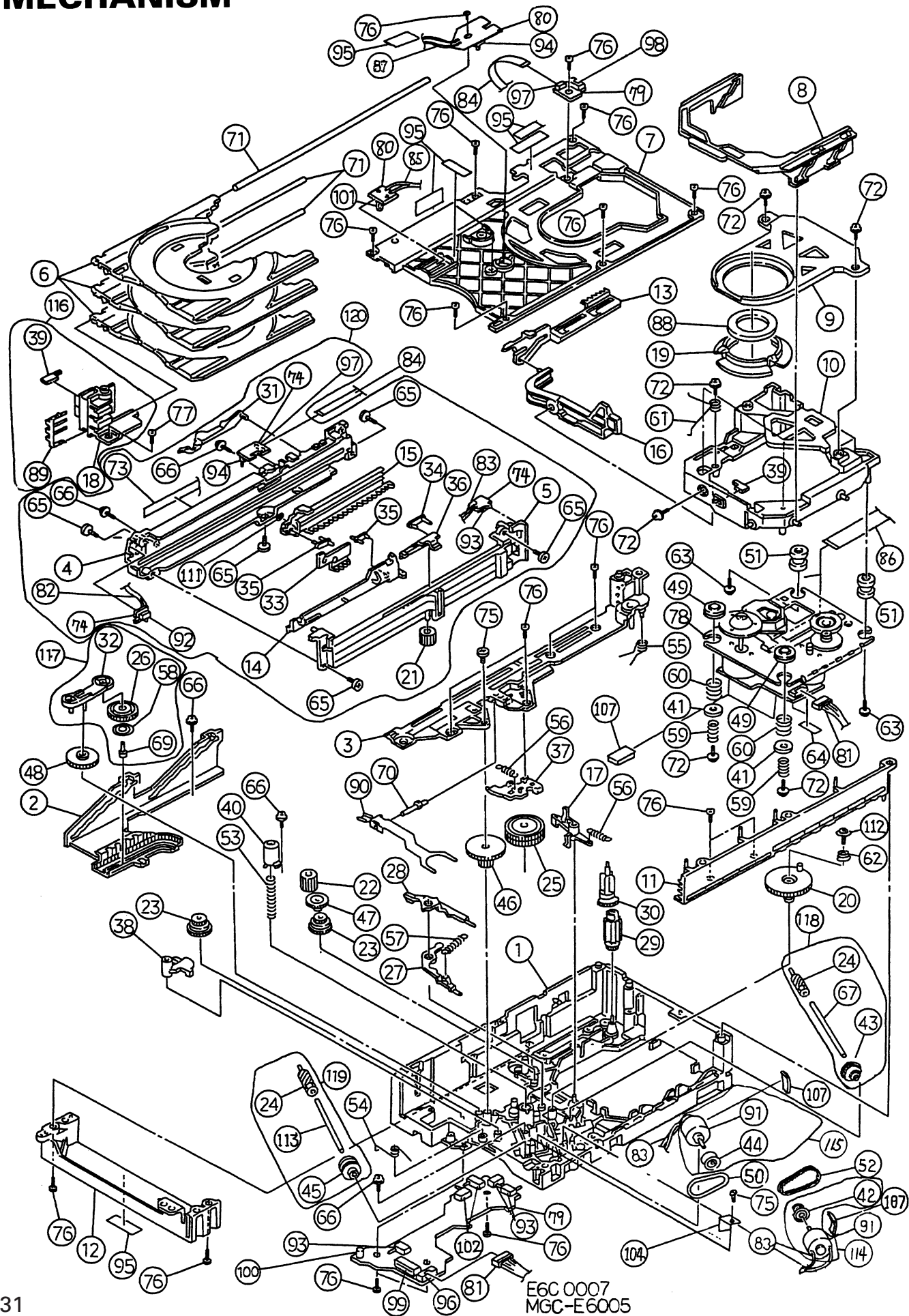
PRINTED CIRCUIT BOARDS



CUP11318



MECHANISM



MECHANISM VIEW-1 [MGC-E6005]

REF. NO.	PARTS NO.	DESCRIPTION	REMARKS
1- 1	9A08349800	CHASSIS (MAIN)	E6A 3011
1- 2	9A08349900	SLIDER (LIFT-L)	E6B 3032
1- 3	9A08350000	SUB CHASSIS (L)	E6B 3038
1- 4	9A08350100	HOLDER (LOAD-B)	E6B 3030
1- 5	9A08350200	HOLDER (LOAD-A)	E6B 3029
1- 6	9A08350300	TRAY	E6B 3043
1- 7	9A08350400	HOLDER (TOP)	E6A 3033
1- 8	9A08350500	SLIDER (TU)	E6B 3031
1- 9	9A08350600	HOLDER (CLAMP)	E6C 3022
1-10	9A08350700	FRAME (TU-A)	E6B 3021
1-11	9A08350900	SUB CHASSIS (R)	E6B 3020
1-12	9A08351000	BRACKET (M)	E6B 3044
1-13	9A08351100	SLIDER (CLAMP)	E6C 3017
1-14	9A08351200	SLIDER (LOAD)	E6C 3025
1-15	9A08351300	SLIDER (OPEN)	E6C 3024
1-16	9A08351400	LEVER (CLAMP)	E6C 3034
1-17	9A08351500	LEVER (SW4)	E6C 3036
1-18	9A08351600	HOLDER (SHAFT)	E6C 3039
1-19	9A08351800	CLAMPER	E6C 3041
1-20	9A08351900	CAM (TU)	E6C 3014
1-21	9A08352100	GEAR (LOAD-A)	E6D 3001
1-22	9A08352200	GEAR (LOAD-B)	E6D 3002
1-23	9A08352400	GEAR (HELICAL)	E6D 3004
1-24	9A08352500	GEAR (WORM)	E6D 3005
1-25	9A08352600	GEAR (IDLER-B)	E6D 3007
1-26	9A08352700	GEAR (FRICTION)	E6D 3008
1-27	9A08352800	LEVER (SW5)	E6D 3012
1-28	9A08352900	LEVER (SW6)	E6D 3013
1-29	9A08353000	GEAR (TU)	E6D 3015
1-30	9A08353100	GEAR (ZENEBA)	E6D 3016
1-31	9A08353200	LEVER (CLOSE SWITCH)	E6D 3018
1-32	9A08353300	ARM (FRICTION)	E6D 3019
1-33	9A08353400	SLIDER (CENTER)	E6D 3023
1-34	9A08353500	LEVER (LIMIT-A)	E6D 3026
1-35	9A08353600	LEVER (LIMIT-B)	E6D 3027
1-36	9A08353700	SLIDER (TRAY)	E6D 3028
1-37	9A08353800	SLIDER (SW-8)	E6D 3035
1-38	9A08353900	LEVER (SW-7)	E6D 3037
1-39	9A08354000	ARM (TRAY LOCK)	E6D 3040
1-40	9A08354100	GUIDE (DISC)	E6D 3042
1-41	9A08354200	COLLAR (SPRING)	E6D 3045
1-42	9A08354300	MOTOR PULLEY (TIMING)	E6D 3058
1-43	9A08354400	PULLEY (TIMING)	E6D 3059
1-44	9A08354500	PULLEY (MOTOR-A)	E6D 3006
1-45	9A08354600	PULLEY (MOTOR)	C3D 3009
1-46	9A08354700	GEAR (CENTER-B)	E6D 3010
1-47	9A08354800	GEAR (IDLER)	E6D 3003
1-48	9A08354900	GEAR (CENTER-A)	E6D 3009
1-49	9A08355000	INSULATOR	C3D 4003
1-50	9A08355100	BELT (LIFT)	E6D 4003

MECHANISM VIEW-1 [MGC-E6005]

REF. NO.	PARTS NO.	DESCRIPTION	REMARKS
1-51	9A08355300	INSULATOR	E6D 4004
1-52	9A08355400	BELT (TIMING)	E6D 4005
1-53	9A08355600	COMPRESSION SP (GUIDE)	E6D 6001
1-54	9A08355700	TORSION SPRING (LOCK)	E6D 6002
1-55	9A08355800	TORSION SPRING (ZENEBA)	E6D 6003
1-56	9A08355900	EXTENSION SP (SWITCH)	E6D 6004
1-57	9A08356000	EXTENSION SPRING (CAM)	E6D 6005
1-58	9A08356100	COMPRESSION SP (FRICTION)	E6D 6006
1-59	9A08356200	COMPRESSION SP (TU-A)	E6D 6007
1-60	9A08356300	COMPRESSION SP (TU-B)	E6D 6008
1-61	9A08356500	TORSION SP (ASSIST-A)	E6D 6009
1-62	9A08356600	COMPRESSION SP (CAM)	E6D 6012
1-63	9A08356800	SCREW (B)	E1D 8002
1-64	9A08356900	SOFT TAPE	E1D 8003
1-65	9A08357100	SCREW (TRAY)	E1D 8004
1-66	9A08357200	SCREW (A2)	E1D 8012
1-67	9A08357400	SHAFT (WORM-A)	E1D 8001
1-68		VACANT	
1-69	9A08357500	SHAFT (FRICTION)	E6D 8003
1-70	9A08357600	SHAFT (LEVER)	E6D 8004
1-71	9A08357700	SHAFT (TRAY)	E6D 8005
1-72	9A08357800	SCREW (FRAME)	E6D 8006
1-73	9A08369800	COVER (WIRE)	E6D 8007
1-74	9A08357900	PCB (SUB-C)	E6B 9031
1-75	9A08358000	SCREW (SUB-L)	E6D 8011
1-76	9A08358100	BIND TAPPING SCREW 2.6*8	8114512608
1-77	9A08358200	BIND TAPPING SC 2.6*8 (BL)	8114522608
1-78	9A08358300	KCTB1H	D40-1500
1-79	9A08358600	PCB (MAIN-B)	E6B 9021
1-80	9A08358700	PCB (SUB-B)	E6B 9022
1-81	9A08358800	WIRING HARNESS (TU)	E6D 9003
1-82	9A08358900	WIRING HARNESS (SW1)	E6D 9004
1-83	9A08359000	WIRING HARNESS (SW2)	E6D 9005
1-84	9A08359100	4P FFC	E6D 9006
1-85	9A08359300	WIRING HARNESS (LED-C)	E6D 9032
1-86	9A08359400	16P FFC	E6D 9002
1-87	9A08359500	WIRING HARNESS (JAM)	E6D 9018
1-88	9A08359600	MAGNET	T99-0544
1-89	9A08359700	FLAT SPRING	E6D 1002
1-90	9A08359800	LEVER (GUIDE)	E6C 1001
1-91	9A08359900	MOTOR MM05B	91542142
1-92	9A08360000	SWITCH MUP10371MLB0	94081102
1-93	9A08360300	SWITCH MUP10252MLB1	94081103
1-94	9A08360400	SWITCH MUP10184MLB1	94081104
1-95	9A08360500	FILAMENT TAPE W1.5CM	96901032
1-96	9A08360600	CONNECTOR S6B-PH	99054172
1-97	9A08360700	CONNECTOR 04FM-1.0ST	99054177
1-98	9A08360800	CONNECTOR S4B-PH-K-S	99054179
1-99	9A08360900	CONNECTOR 16FE-ST	99054180
1-100	9A08361200	PHOTO TRANSISTOR RPT-38PT3F	99518074

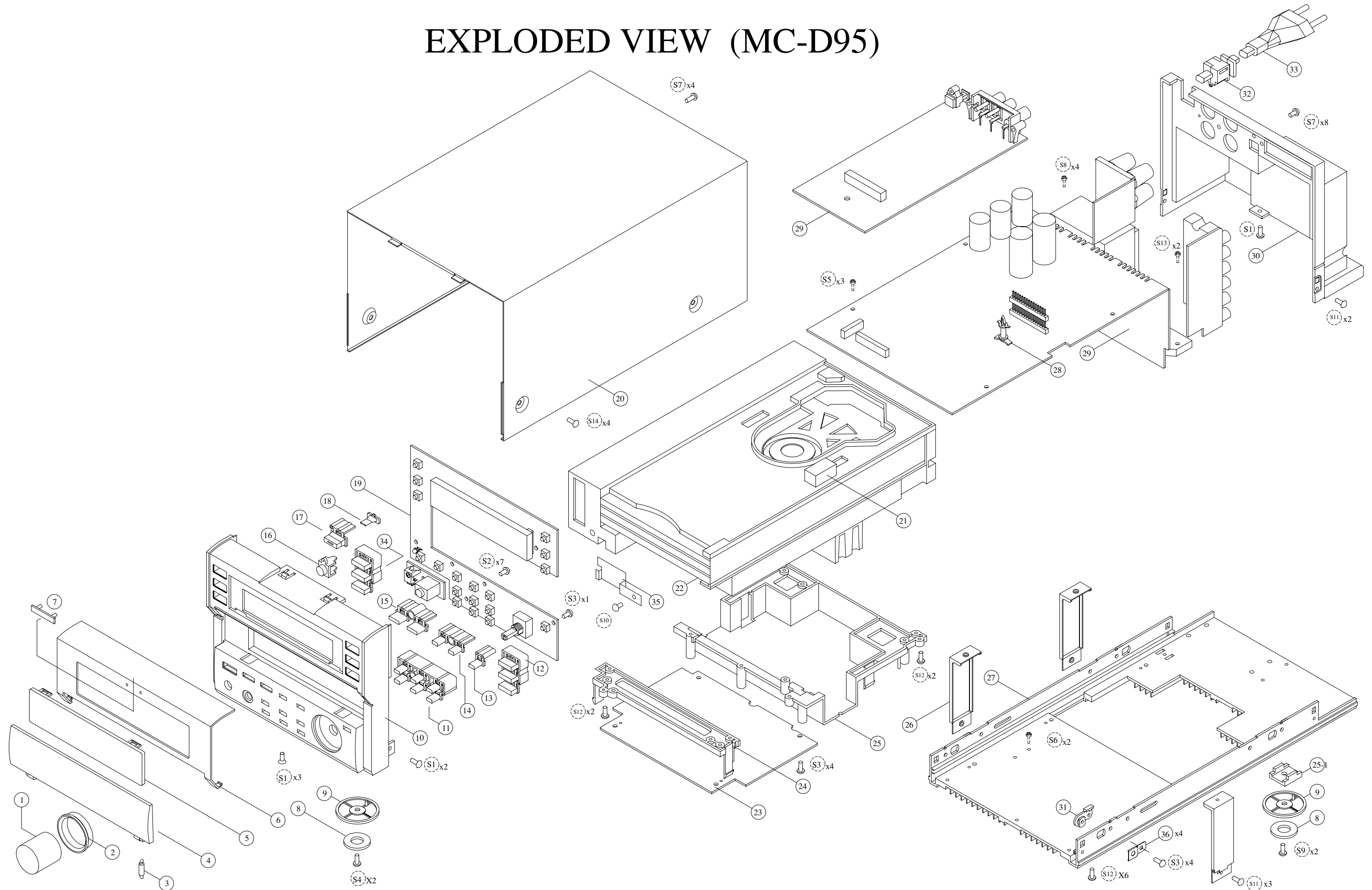
MECHANISM VIEW-1 [MGC-E6005]

REF. NO.	PARTS NO.	DESCRIPTION	REMARKS
1-101	9A08361300	LED SIR-33ST3	99518207
1-102	9A08361400	SWITCH SPPB62	S40-1139
1-103		VACANT	
1-104	9A08361700	FLAT SPRING (WORM)	E6D 1006
1-105		VACANT	
1-106		VACANT	
1-107	9A08361800	CUSHION	E1D 8007
1-108		VACANT	
1-109		VACANT	
1-110		VACANT	
1-111	9A08362100	POLYSLIDER WASHER M2.1*M5	8342121030
1-112	9A08362200	SCREW (A3)	E6D 8014
1-113	9A08362300	SHAFT (WORM-C)	E6D 2002
1-114	9A08362400	MOTOR ASSY (E6D 9028)	E6D 9028
1-115	9A08362500	MOTOR ASSY (E6D 9027)	E6D 9027
1-116	9A08362600	HOLDER (SHAFT) ASSY	E6D 3061
1-117	9A08362700	GEAR (FRICTION) ASSY	E6D 3050
1-118	9A08362800	WORM (A) ASSY	E6D 3048
1-119	9A08362900	WORM (B) ASSY	E6D 3049
1-120	9A08363001	HOLDER (LOAD) ASSY	E6A 3060

INCLUDED ACCESSORIES

REF. NO.	PARTS NO.	DESCRIPTION	REMARKS
	9A09333610	INSTRUCTION MANUAL ASS'Y	CQXMCD95T/CCC
	9A07871200	REMOCON TRANSMITTER ASS'Y	CARTCR-H100TCCC
	9A08046100	ADAPTOR, 75-300 (NTSC)	KLR1T201
	9A08880800	ANT, FM.T(LUG TYPE)	CSA267
	9A08880900	AM LOOP ANTENNA ASS'Y	CSA3A012Z
	9A08903000	OWNER'S MNL,E/F MC-D95	CQX1A747Z
	9A09343300	SPEAKER SYSTEM	CLS-MC95CC

EXPLODED VIEW (MC-D95)



EXPLODED VIEW-2


REF. NO.	PARTS NO.	DESCRIPTION	REMARKS
2- 1	9A09341600	KNOB,VOLUME	CBN1A150M7K101
2- 2	9A08563100	ORNAMET,VOLUME	KGR1A202MBC22
2- 3	9A08877600	SPRING,DOOR	KUS1A124
2- 4	9A09342700	ORNAMENT , DOOR	CGR1A257M7ZK101
2- 5	9A09342800	WINDOW , FIP	CGU1A273
2- 6	9A09342500	ORNAMENT , FRONT	CGK1A075ZC25
2- 7	9A08127900	BADGE,TEAC	KGB1A080Z
2- 8	9A07889500	CUSHION,FOOT	KHG1A165
2- 9	9A07872900	FOOT	CKL1A059M9K63
2-10	9A09342900	FRONT PANEL	CGW1A329M7ZK101
2-11	9A09342100	KNOB,MODE	CBT1A797M7K101
2-12	9A09341800	KNOB,BAND	CBT1A794M7ZK101
2-13	9A09342300	KNOB,SKIP	CBT1A799M7K101
2-14	9A09342200	KNOB,TUNING	CBT1A798M7K101
2-15	9A09342000	KNOB,CD	CBT1A796M7K101
2-16	9A08562700	WINDOW,SENSOR	CGU1A241
2-17	9A09341900	KNOB,POWER	CBT1A795M7K101
2-18	9A09342600	INDICATOR , POWER	CGL1A196
2-19	9A09333310	FRONT PCB ASS'Y T/C	COP11492B
2-20	9A09091700	CABINET,TOP	CKC1B107S35
2-21	9A06327100	SUPPORT,CUSHION	KHG1A104
2-22	9A08214800	3CD MECHANISM [MGC-E6005]	CJDMGCE6005
2-23	9A08878000	CD PCB ASS'Y EX-CD3	COP11381C
2-24	9A08215100	SUPPORT,MECHA(A)	CMH1A104
2-25	9A08215200	SUPPORT,MECHA(B)	CMH1A105
2-26	9A08879600	BRACKET,PCB	CMD1A405
2-27	9A08217100	CHASSIS,BOTTOM	CUA1A180
2-28	9A05963800	SUPPORT,PCB	KRE1A018
2-29	9A08879700	MAIN PCB ASS'Y EX-CD3TCCC	COP11318F
2-30	9A08563400	CABINET,REAR	CKD1A031Y
2-31	9A07873500	LOCKER,TOP	CMH1A088
2-32	△ 9A06754900	BUSHING,AC CORD	KHR1A028
2-33	△ 9A07872600	POWER,CORD	CJA523FBY
2-34	9A09341700	KNOB,DISC	CBT1A794M7K101
2-35	9A08219100	COVER , MECHA	KGX1A285
2-36	9A08879400	PLATE,SHIELD	CMC1A166
F 902	△ 9A07888700	FUSE 2A , 250V F902	KBA2C2000TLU
S 1	9A09332600	SCREW,CTS3+8J	CTS3+8J
S 2	9A09331900	SCREW,CTB3+10G	CTB3+10G
S 3	9A09332400	SCREW,CTB3+8G	CTB3+8G
S 4	9A09330900	SCREW,CTW3+8G	CTW3+8G
S 5	9A09332900	SCREW,CTW3+6J	CTW3+6J
S 6	9A09330600	SCREW,CTB3+8J	CTB3+8J
S 7	9A09343700	SCREW	CTB3+10GFC
S 8	9A09332500	SCREW,CTB4+8F	CTB4+8F
S 9	9A09330800	SCREW,CTW3+10J	CTW3+10J
S10	9A05984200	SCREW	KTB3+8GFZ
S11	9A01420500	SCREW,KTB3*8G	KTB3+8G
S12	9A06555100	SCREW,KTB3+12G	KTB3+12G
S13	9A09343900	SCREW	CTW3+14J

■ RESISTORS AND CAPACITORS

Notes : • Part numbers are indicated for most mechanical parts.

Please use this part number for parts order.

• **IMPORTANT SAFETY NOTICE.**

Components identified by  mark have special characteristics important for safety.

When replacing any of these components, use only manufacture's specified parts.

• The unit of resistance is OHM(Ω)

K=1000(Ω), M=1000(K Ω)

• The unit of capacitance is MICROFARAD(μ F)

P=10⁻⁶ μ F

■ Numbering System of Resistor

Example

CRD 25 F J 101
Type Wattage Shape Tolerance Value

Resistor Type	Wattage	Tolerance
CRD: Carbon	20:1/5W	F:= \pm 1%
CRG: Metal Oxide	25:1/4W	J:= \pm 5%
	50:1/2W	K:= \pm 10%
	1:1W	
CRF: Metal Cement	2:2W	
	3:3W	

■ Numbering System of Capacitor

Example

HCKR 1H 101 K B
Type Voltage Value Tolerance Peculiarity

Capacitor Type	Voltage		Tolerance
	ECEA Type	Other	
HCB: Ceramic	0J: 6.3V	1H: 50V DC	C: \pm 0.25pF
HCC: Ceramic	1A: 10V	1: 125V DC	G: \pm 2%
HCK: Ceramic	1C: 16V	KC: 400V AC	J: \pm 5%
HCQI: Polyester	1E: 25V		K: \pm 10%
HCQP: Polypropylene	1H: 50V		Z: +80%, -20%
HCQS: Polystyrol	1V: 35V		

MAIN PCB ASS'Y

REF. NO.	PARTS NO.	DESCRIPTION	REMARKS
	9A08215500	MAIN PCB ASS'Y TCA	COP11318B
	9A08217300	MAIN PCB	CUP11318Y
C 124	9A07886400	CAP, STYROLE	HCQS1H471JZ
C 127	9A01405900	C, VARIABLE 20PF A020S12	KCRA020S12
C 129	9A07882400	CAP, ELECT 100UF/16V	HCEA1CH101T
C 139	9A07882400	CAP, ELECT 100UF/16V	HCEA1CH101T
C 143	9A07882300	CAP, ELECT 470/10V	HCEA1AH471T
C 925 .926	9A07897000	CAP, ELECT HCEA1CH471T	HCEA1CH471T
C 927 .928	9A07882400	CAP, ELECT 100UF/16V	HCEA1CH101T
C 929	9A07897000	CAP, ELECT HCEA1CH471T	HCEA1CH471T
C 930	9A07882400	CAP, ELECT 100UF/16V	HCEA1CH101T
C 931	9A08218500	CAP, ELECT	HCEA1EH331T
C 933	9A07883800	CAP, ELECT 47/50V	HCEA1HH470T
C 940 -942	9A07884300	CAP, ELECT 2200/35V	HCEA1VH222E
CF11 .12	9A06544600	FILTER, CERAMIC E107MSHAT	BVFE107MSHAT
CF13	9A07006300	FILTER CERAMIC PBF450JR3	BVFPFB450JR3
CN10	9A06250600	WAFER 02GA19ZM	KJP02GA19ZM
CN12	9A08220100	HOUSING 42140(15PIN)	KJP15HA37ZM
CN21	9A07889700	WAFER MOLEX35336-0610	KJP06GA98ZM
CN22	9A08219800	WAFER	KJP11GA98ZM
CN51	9A08219600	WAFER 53291(5PIN)	KJP05GA102ZM
CN66	9A06251000	WAFER	KJP15GA19ZM
CN67	9A05938500	WAFER, 3P	KJP03GA19ZM
CN71	9A08220000	WAFER, CARD CABLE	KJP15GA115ZG
CN72	9A08220500	WAFER, CARD CABLE	KJP24GA115ZG
CN75	9A05330900	WAFER MOLEX-53014	KJP11GA19ZM
CN91 .92	9A05329100	WAFER MOLEX 5267-03A	KJP03GA01ZM
D 101	9A08163000	DIODE, VARICAP	HVDSVC342LT
D 103 .105	9A07887200	DIODE 1SS131M	HVD1SS131MT
D 201 .202	9A07887200	DIODE 1SS131M	HVD1SS131MT
D 355	9A07887200	DIODE 1SS131M	HVD1SS131MT
D 361 -364	9A07887200	DIODE 1SS131M	HVD1SS131MT
D 366 -369	9A07887200	DIODE 1SS131M	HVD1SS131MT
D 501	9A06224900	DIODE , BRIDGE PBU604F	BVDPBU604F
D 502 -506	9A07887200	DIODE 1SS131M	HVD1SS131MT
D 901 -910	9A05194700	DIODE, 1N4003ST	KVD1N4003ST
D 915 .916	9A07886900	DIODE, ZENER 13V ZENER	HVDMTZJ13BT
D 917 .919	9A07887100	DIODE, ZENER 6.2V ZENER	HVDMTZJ6.2BT
D 920	9A08221500	DIODE, ZENER	KVDMTZJ9.1BMT
D 921	9A07887000	DIODE, ZENER 33V 1/2W	HVDMTZJ33BT
D 922 .923	9A05194700	DIODE, 1N4003ST	KVD1N4003ST
ET01	9A05333900	PLATE, EARTH	KNE75
F 901	9A05328200	HOLDER, FUSE KJCF5S	KJCF5S
IC11	9A08163100	IC, (IF+MPX) LA1836M	HVILA1836M
IC12	9A08163300	IC, PLL LC72131M	HVILC72131M
IC21	9A05425000	IC (VOLUME+FUNCTION)	BVITDA7318D
IC22	9A08163200	IC, LC4966	HVILC4966
IC23 .24	9A08163400	IC, OP AMP NJM2068MD	HVINJM2068MDTE1
IC25	9A08163500	IC, NJM4556AL	HVINJM4556AL
IC36	9A08883000	I.C, U-COM(MAIN)	HVIANAM1301AT
IC37	9A06878400	VOLTAGE DETECTOR	BVIRE5VL30CARZ
IC52	9A08163700	IC, AMP STK4132MK2	HVISTK4132(2)
IC91	9A06868000	IC, NJM7808FA	BVINJM7808FA
JK01	9A08045800	TREMINAL, ANT (T/C 75 OHM)	KJJ3G010Z
JK11	9A06239100	MODULE, OPTICAL	BJS9L001Z

MAIN PCB ASS'Y

REF. NO.	PARTS NO.	DESCRIPTION	REMARKS
JK21	9A07872700	TERMINAL, IN/OUT	CJJ4R012Z
JK22	9A07889600	JACK , PIN BOARD	KJJ4R018Z
JW21	9A06867500	WIRE , ASS'Y	KWZAH300JW74
JW51	9A07295100	WIRE ASSS'Y	KWZAAV1100W801
L 130	9A07886600	COIL , AXAIL 10UH	HLO02C100KT
Q 101	9A07888400	T.R, KTC3192OT	HVTKTC3192OT
Q 103	9A07887700	TR, DTA114YST	HVTDTA114YST
Q 104	9A03745100	TR, KSA1175-YTA	KVTKSA1175YT
Q 107	9A07887800	TR, DTC114YST	HVTDTC114YST
Q 108	9A07887700	TR, DTA114YST	HVTDTA114YST
Q 109 .110	9A07888500	TR, KTD1302T	HVTKTD1302T
Q 201 -208	9A07888500	TR, KTD1302T	HVTKTD1302T
Q 211 .212	9A07887800	TR, DTC114YST	HVTDTC114YST
Q 213	9A07887700	TR, DTA114YST	HVTDTA114YST
Q 361	9A07887800	TR, DTC114YST	HVTDTC114YST
Q 362	9A07887700	TR, DTA114YST	HVTDTA114YST
Q 363	△ 9A07887900	T.R KSB811YT	HVTKSB811YT
Q 367	9A07887800	TR, DTC114YST	HVTDTC114YST
Q 368 .369	9A07888500	TR, KTD1302T	HVTKTD1302T
Q 370	9A07887700	TR, DTA114YST	HVTDTA114YST
Q 502 .503	9A07887800	TR, DTC114YST	HVTDTC114YST
Q 504	9A07887700	TR, DTA114YST	HVTDTA114YST
Q 505 .506	△ 9A03745100	TR, KSA1175-YTA	KVTKSA1175YT
Q 507	9A07887800	TR, DTC114YST	HVTDTC114YST
Q 901 -903	9A07887700	TR, DTA114YST	HVTDTA114YST
Q 904 -906	9A07887800	TR, DTC114YST	HVTDTC114YST
Q 908 .909	△ 9A07888600	T.R KTD2058Y	HVTKTD2058Y
Q 911	△ 9A07888200	T.R KTA1274YT	HVTKTA1274YT
Q 915	△ 9A01388300	TR, KSD288-Y-AB	KVTKSD288Y
Q 916	△ 9A01388400	TR, KSA614-Y	KVTKSA614Y
Q 917 .918	9A07887800	TR, DTC114YST	HVTDTC114YST
Q 920	9A07887700	TR, DTA114YST	HVTDTA114YST
R 111	9A07895300	RES, CARBON CRD20TJ331T	CRD20TJ331T
R 255 .256	9A07901800	RES, CARBON CRD20TJ4R7T	CRD20TJ4R7T
R 313 .314	9A08216800	RES, CARBON	CRD25TJ104T
R 363	9A08216500	RES, CARBON 1M OHM 1/5W	CRD20TJ105T
R 531	9A08125900	RES, CARBON 20TJ153T	CRD20TJ153T
R 535	△ 9A07892000	RES, CARBON 1K OHM 1/2W	KRD50FJ102T
R 536 -539	△ 9A07892100	RES, CARBON 2.2K OHM 1/2 J	KRD50FJ222T
R 540	9A07892000	RES, CARBON 1K OHM 1/2W	KRD50FJ102T
R 541 .542	△ 9A05338000	RES, METAL 10 OHM 1W J	KRG1ANJ100H
R 543 .544	△ 9A06062000	R, CEMENT 0.27 2W	KRF2CJR27H
R 901 .902	9A08216900	RES , CARBON	CRD25TJ681T
R 904	△ 9A07892200	RES, METAL 330 OHM 1W J	KRG1ANJ331H
R 905	△ 9A08221300	RES, METAL 2.2 OHM 1W J	KRG1ANJ2R2H
R 924	△ 9A05338100	RES, METAL 22 OHM 1W J	KRG1ANJ220H
R 926 .927	△ 9A06062000	R, CEMENT 0.27 2W	KRF2CJR27H
R 928 .929	△ 9A06760900	R, FUSE 0.47 J 1W	KRQ1AJR47H
R 930	△ 9A06761000	R, CARBON 3.3M K 1/2W	BRDERC12UGK335T
RY51	9A06224600	RELAY G5Z-2A-DC12V	BSL4A008ZE
SP51	9A08214900	TERMINAL , SPEAKER	CJJ5P017Z
T 101	9A07873000	COIL, AM ANT2	CLA2C005
T 102	9A07873300	COIL, AM OSC	CLO2B008Z
T 103	9A07873200	I.F.T, FM	CLI3B028Z
T 104	9A07873100	I.F.T, AM	CLI2B103-G

MAIN PCB ASS'Y

REF. NO.	PARTS NO.	DESCRIPTION	REMARKS
T 901	9A07873400	TRANS, POWER(MAIN)	CLT5P037ZU
TF01	9A08215300	PACK , FRONT END	CNVKSTF401VA3
TW91	9A06674400	WAFER, 7.92MM (YUNHO)	KJP02KA060ZY
VR11	9A05940500	R, SEMI FIXED EVNDJAA03B53	BVN1PA502B01T
VR12	9A08040700	RES, SEMI FIXED(22K OHM)	KVN1RA223B01T
VR13	9A08040600	RES, SEMI FIXED(10K OHM)	KVN1RA103B01T
WF21	9A07889800	CONNECTOR MOLEX35237-0610	KJP06GB99ZM
WF22	9A08219900	CONNECTOR	KJP11GB99ZM
WF51	9A08219700	WAFER	KJP05GB103ZM
X 101	9A07491700	RESONATOR, CERAMIC	HVFZTB456F11
X 102	9A07491800	FILTER, CERAMIC	HVFLZU450C4N
X 104	9A04874300	CRYSTAL, DC-D2100	KOX07200A200C
X 361	9A05193000	CRYSTAL, 08000E160C	KOX08000E160C
X 362	9A05188800	CRYSTAL, 32,768KHZ DT-38	BOX00032A120C

CD PCB ASS'Y

REF. NO.	PARTS NO.	DESCRIPTION	REMARKS
	9A08563300	CD PCB ASS'Y	COP11381B
	9A08564000	CD PCB	CUP11381Z
BN66	9A08222000	WIRE ASS'Y	KWDB015150EW
BN67	9A08222200	WIRE ASS'Y	KWZCR130BN67
CN61	9A08220300	WAFER , CARD CABLE (STRAI)	KJP16GA117ZG
CN62	9A08220400	WAFER, CARD CABLE (ANGLE)	KJP16GB116ZG
CN63	9A08219500	WAFER	KJP02GA68ZG
CN64	9A07335100	WAFER MOLEX 53015	KJP04GB46ZM
CN65	9A08219500	WAFER	KJP02GA68ZG
D601, 604	9A07887200	DIODE 1SS131M	HVD1SS131MT
IC61	9A08563900	IC, RF AMP DIGITAL SERVO	HVITA2150FN
IC62	9A07887600	I.C DIGITAL SERVO TC9432A	HVITC9432AF
IC63	9A07887300	I.C POWER DRIVER TA2092N	HVITA2092N
IC64, 65	9A07887500	I.C TA7291S	HVITA7291S
IC66	9A09061200	IC, U-COM ANAM1325AC	BVIANAM1325AC
IC67	9A08218600	I.C, REGULATOR	HVIMC7805C
L601, 621	9A07886600	COIL , AXAIL 10UH	HLQ02C100KT
Q601	9A07888100	T.R TKTA1266YT	HVTKTA1266YT
Q602	9A07888500	TR, KTD1302T	HVTKTD1302T
Q603	9A07887800	TR,DTC114YST	HVTDTC114YST
RZ01	9A05337800	R, NETWORK SN5X103J	KRGSN5X103J
X601	9A04275700	CRYSTAL, 16.9344MHZ	KOX16934A120F
X602	9A05193000	CRYSTAL, 08000E160C	KOX08000E160C

FRONT PCB ASS'Y

REF. NO.	PARTS NO.	DESCRIPTION	REMARKS
	9A09333310	FRONT PCB ASS'Y T/C	COP11492B
	9A09333500	FRONT PCB	CUP11492Z
BN75	9A08877400	WIRE ASS'Y	CWDB011110EW
CN71	9A08220000	WAFER, CARD CABLE	KJP15GA115ZG
CN72	9A08220500	WAFER, CARD CABLE	KJP24GA115ZG
D701	9A09344400	L.E.D , YELLOW	HVD342YCTB7T089
FIP1	9A07889000	F.I.P SVA10MM1	KFLSVA10MM17
HP71	9A08126400	JACK,HEADPHONE(SILVER)	HJJ2D003Y
RS71	9A08563600	SENSOR,REMOCON	KRVHIM602H32
VR71	9A08890200	VR, ENCODER 2A004Z	HSR2A004Z